Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: INVUE

Report Number: P868787

Luminaire Tested: **EMM2-HSN-SA3B-740-U-T1**

Issue Date: 08/22/2024

Report Generated By 670245763

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P868787
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	08/22/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	INVUE
Catalog Number:	EMM2-HSN-SA3B-740-U-T1
Description:	EPIC MODERN SHORT HOUSING DISCRETE LED ARRAYS 150W 70CRI 4000K FIXTURE w/ TYPE 1 DISTRIBUTION OPTIC
Light Source:	(30) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	19806.7 lumens
Efficiency:	N/A
Efficacy:	147.8 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.33' x H: 0')
IES Classification:	Type I - Short
BUG Rating:	B4 - U0 - G4

Input Watts (W):	134
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.70%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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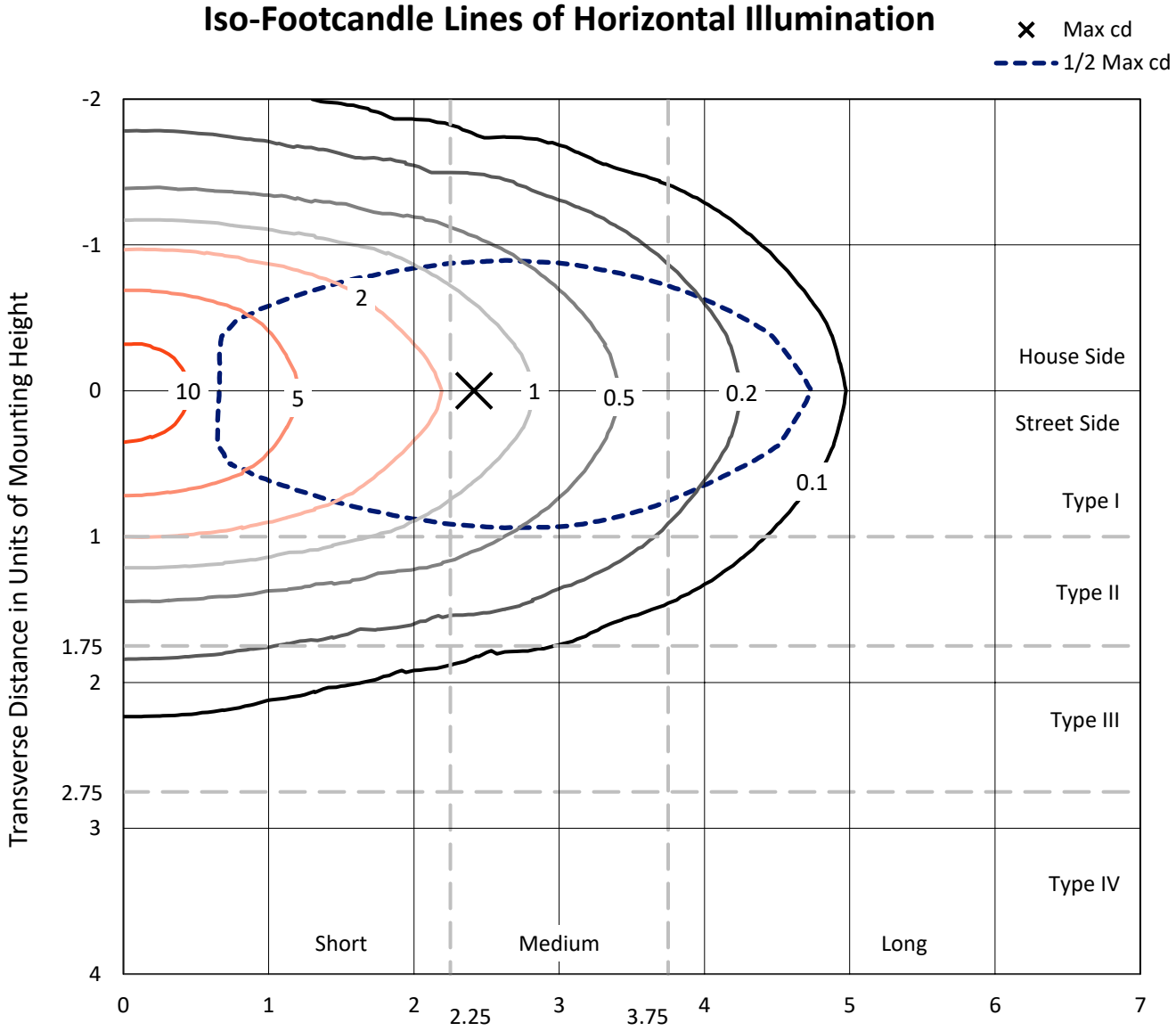
Scaled Data Report

REPORT NUMBER: P868787
CATALOG NUMBER: EMM2-HSN-SA3B-740-U-T1

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 12.1 fc
Type I - Short - N/A

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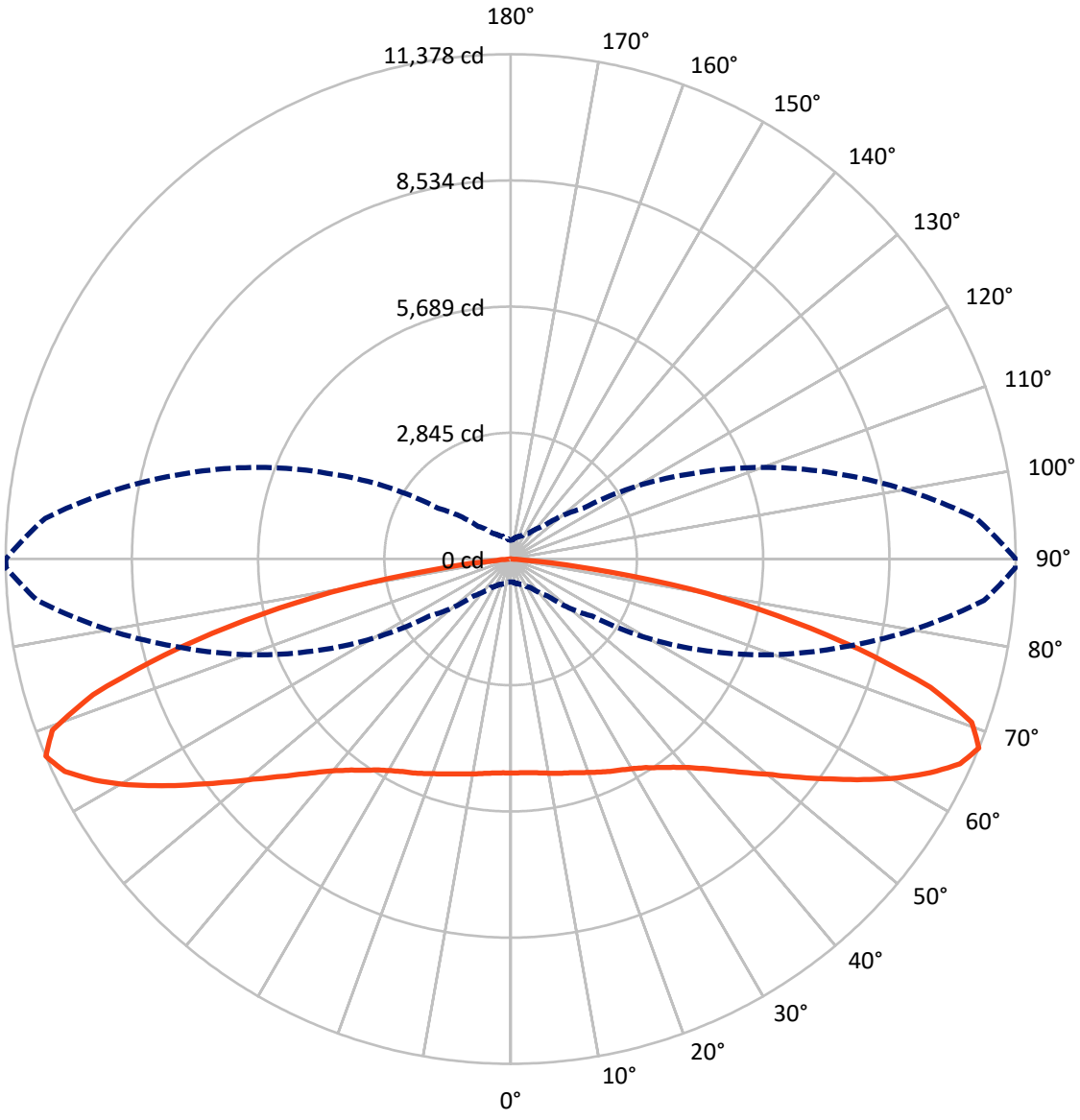
Luminous Intensity Polar Plot



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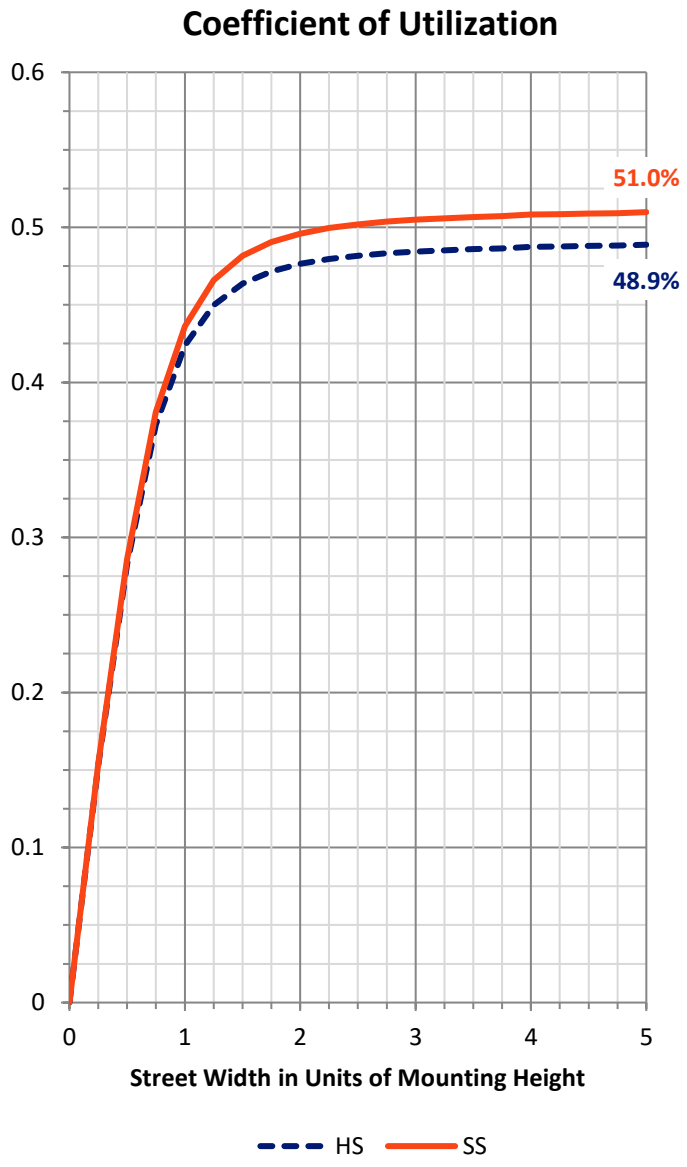
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9727.5	0.0	9727.5
	% Fixture	49.1	0.0	49.1
Street Side	Lumens	10079.2	0.0	10079.2
	% Fixture	50.9	0.0	50.9
Total	Lumens	19806.7	0.0	19806.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.5	2.3
10°-20°	1389.9	7.0
20°-30°	2300.2	11.6
30°-40°	3050.0	15.4
40°-50°	3438.8	17.4
50°-60°	3525.3	17.8
60°-70°	3329.6	16.8
70°-80°	2043.1	10.3
80°-90°	267.3	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	19806.7	100.0
0°-180°	19806.7	100.0



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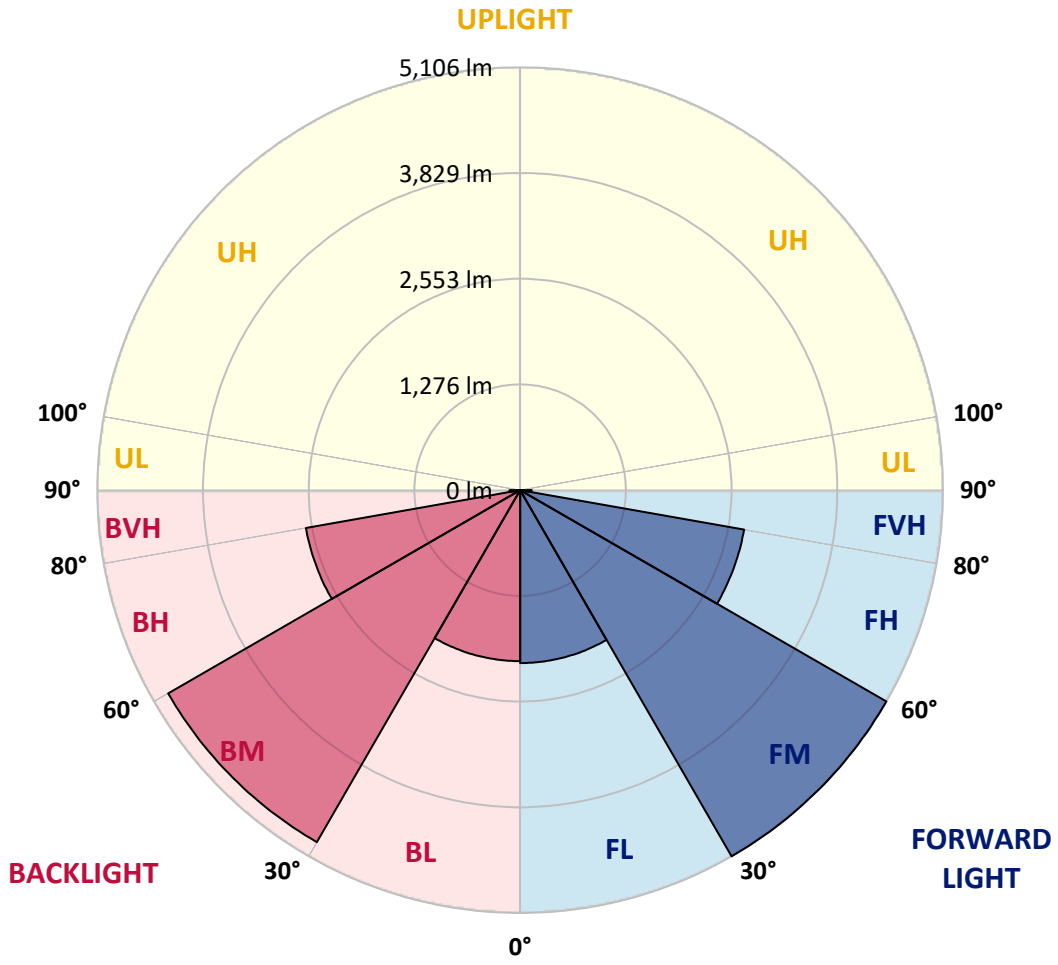
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2088.2	10.5			
FM	(30°-60°)	5105.9	25.8			
FH	(60°-80°)	2745.9	13.9			G2/5000
FVH	(80°-90°)	139.2	0.7			G2/225
BL	(0°-30°)	2064.4	10.4	B3/2500		
BM	(30°-60°)	4908.3	24.8	B3/5000		
BH	(60°-80°)	2626.8	13.3	B4/5000		G4/5000
BVH	(80°-90°)	128.1	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	4825.9	4825.9	4825.9	4825.9	4825.9	4825.9	4825.9	4825.9	4825.9	4825.9	4825.9
2.5°	4844.9	4844.9	4833.5	4814.5	4810.7	4814.5	4837.3	4825.9	4825.9	4829.7	4825.9
5°	4844.9	4844.9	4837.3	4818.3	4818.3	4818.3	4844.9	4833.5	4837.3	4841.1	4841.1
7.5°	4852.5	4852.5	4844.9	4829.7	4829.7	4829.7	4867.7	4860.1	4860.1	4871.5	4863.9
10°	4871.5	4863.9	4856.3	4860.1	4848.7	4867.7	4886.7	4890.5	4905.7	4913.3	4909.5
12.5°	4871.5	4863.9	4844.9	4867.7	4867.7	4894.3	4920.9	4936.2	4955.2	4955.2	4955.2
15°	4848.7	4841.1	4825.9	4863.9	4879.1	4913.3	4951.4	4974.2	5008.4	5008.4	5004.6
17.5°	4822.1	4810.7	4803.1	4860.1	4894.3	4940.0	4997.0	5027.4	5065.5	5069.3	5061.6
20°	4772.6	4768.8	4772.6	4848.7	4909.5	4974.2	5042.6	5084.5	5133.9	5149.1	5137.7
22.5°	4719.4	4719.4	4734.6	4837.3	4932.3	5019.8	5111.1	5164.3	5213.8	5229.0	5213.8
25°	4647.1	4647.1	4677.6	4799.2	4940.0	5069.3	5175.7	5248.0	5293.6	5308.8	5301.2
27.5°	4536.8	4536.8	4571.1	4723.2	4917.1	5107.3	5244.2	5327.9	5377.3	5392.5	5384.9
30°	4380.9	4373.3	4419.0	4609.1	4875.3	5149.1	5324.0	5411.5	5476.2	5487.6	5476.2
32.5°	4133.7	4145.2	4213.6	4453.2	4806.9	5175.7	5419.1	5521.8	5594.1	5616.9	5609.3
35°	3833.3	3852.3	3947.4	4255.4	4677.6	5171.9	5518.0	5643.5	5738.6	5769.0	5765.2
37.5°	3475.8	3502.5	3620.4	3981.6	4483.6	5114.9	5609.3	5780.4	5905.9	5943.9	5951.5
40°	3084.1	3110.8	3262.9	3662.2	4221.2	4981.8	5662.5	5936.3	6103.6	6179.7	6191.1
42.5°	2669.6	2715.3	2897.8	3285.7	3905.6	4768.8	5662.5	6088.4	6293.8	6434.5	6445.9
45°	2270.3	2308.4	2528.9	2909.2	3567.1	4495.0	5597.9	6240.5	6552.4	6795.8	6788.2
47.5°	1924.3	1935.7	2137.2	2521.3	3190.6	4183.2	5464.8	6377.4	6826.2	7149.4	7217.9
50°	1566.8	1593.4	1764.5	2144.8	2806.5	3840.9	5240.4	6464.9	7107.6	7598.2	7685.6
52.5°	1315.8	1319.6	1448.9	1798.8	2407.2	3426.4	4970.4	6487.7	7377.6	8084.9	8191.4
55°	1072.4	1091.4	1201.7	1464.1	2023.1	3019.5	4620.5	6453.5	7624.8	8556.5	8754.3
57.5°	920.3	924.1	1004.0	1213.1	1707.5	2586.0	4232.6	6339.4	7830.2	9077.5	9328.5
60°	791.0	791.0	851.8	1011.6	1380.4	2163.8	3776.3	6137.9	7944.2	9636.5	10001.6
62.5°	688.3	692.1	745.4	863.3	1148.5	1787.4	3274.3	5822.2	7986.1	10176.5	10594.9
65°	623.7	627.5	657.9	737.8	946.9	1452.7	2760.9	5438.1	7929.0	10579.6	11123.5
67.5°	*517.2*	*521.0*	*574.2*	*635.1*	*787.2*	*1167.5*	*2243.7*	*4905.7*	*7697.1*	*10705.1*	*11370.6*
70°	395.5	406.9	479.2	543.8	654.1	931.7	1722.7	4202.2	7141.8	10279.2	10963.7
72.5°	330.9	334.7	387.9	460.1	547.6	730.2	1308.2	3308.5	6297.6	9180.2	9940.8
75°	289.0	292.8	323.2	387.9	456.3	585.6	908.9	2285.5	5023.6	7423.2	8119.2
77.5°	262.4	266.2	273.8	327.0	384.1	452.5	642.7	1357.6	3544.3	5673.9	6039.0
80°	251.0	251.0	232.0	270.0	315.6	353.7	429.7	779.6	2274.1	3825.7	4118.5
82.5°	178.7	174.9	159.7	167.3	193.9	193.9	220.6	323.2	870.9	1616.2	1753.1
85°	11.4	11.4	19.0	22.8	34.2	45.6	57.0	76.1	220.6	300.4	311.8
87.5°	3.8	3.8	3.8	3.8	3.8	7.6	7.6	7.6	11.4	15.2	15.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report

REPORT NUMBER: P868787
CATALOG NUMBER: EMM2-HSN-SA3B-740-U-T1

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4825.9	4825.9	4825.9	4825.9	4825.9	4825.9	4825.9	4825.9	4825.9	4825.9	4825.9
2.5°	4822.1	4825.9	4825.9	4833.5	4841.1	4837.3	4833.5	4841.1	4829.7	4806.9	4803.1
5°	4837.3	4837.3	4833.5	4841.1	4848.7	4841.1	4833.5	4833.5	4825.9	4803.1	4799.2
7.5°	4867.7	4863.9	4863.9	4863.9	4863.9	4852.5	4841.1	4833.5	4822.1	4799.2	4787.8
10°	4909.5	4905.7	4901.9	4898.1	4879.1	4867.7	4848.7	4837.3	4822.1	4795.4	4787.8
12.5°	4955.2	4947.6	4940.0	4943.8	4905.7	4871.5	4852.5	4825.9	4814.5	4753.6	4742.2
15°	5000.8	4989.4	4985.6	4970.4	4932.3	4882.9	4844.9	4806.9	4768.8	4711.8	4692.8
17.5°	5061.6	5054.0	5031.2	5016.0	4962.8	4894.3	4837.3	4784.0	4734.6	4666.1	4654.7
20°	5133.9	5126.3	5103.5	5073.1	5004.6	4920.9	4841.1	4757.4	4696.6	4616.7	4597.7
22.5°	5213.8	5202.4	5183.3	5149.1	5061.6	4962.8	4852.5	4742.2	4650.9	4559.7	4548.3
25°	5297.4	5289.8	5270.8	5221.4	5126.3	5004.6	4852.5	4689.0	4574.9	4495.0	4460.8
27.5°	5377.3	5373.5	5350.7	5293.6	5194.7	5035.0	4818.3	4601.5	4449.4	4342.9	4320.1
30°	5480.0	5472.4	5445.7	5381.1	5270.8	5054.0	4749.8	4453.2	4263.0	4145.2	4110.9
32.5°	5605.5	5597.9	5559.8	5480.0	5362.1	5057.8	4650.9	4263.0	4012.0	3886.6	3844.7
35°	5772.8	5757.6	5708.1	5613.1	5449.5	5019.8	4476.0	4019.7	3711.6	3548.1	3491.1
37.5°	5955.3	5936.3	5871.7	5753.8	5510.4	4917.1	4228.8	3692.6	3342.7	3148.8	3107.0
40°	6179.7	6153.1	6054.2	5890.7	5533.2	4738.4	3951.2	3358.0	2985.3	2772.3	2722.9
42.5°	6461.1	6415.5	6255.8	6042.8	5487.6	4495.0	3620.4	3011.9	2586.0	2388.2	2376.8
45°	6799.6	6727.3	6487.7	6191.1	5388.7	4190.8	3270.5	2624.0	2217.1	2023.1	1973.7
47.5°	7198.9	7111.4	6757.7	6305.2	5194.7	3878.9	2894.0	2247.5	1874.8	1677.1	1639.0
50°	7640.0	7556.3	7043.0	6369.8	4985.6	3513.9	2525.1	1912.9	1540.2	1376.6	1376.6
52.5°	8176.2	7986.1	7316.8	6377.4	4666.1	3110.8	2171.5	1585.8	1293.0	1148.5	1118.0
55°	8746.6	8522.3	7563.9	6309.0	4335.3	2741.9	1791.2	1319.6	1061.0	958.3	931.7
57.5°	9381.7	9039.5	7742.7	6172.1	3917.0	2338.8	1494.5	1087.6	893.7	810.0	798.6
60°	10020.6	9579.5	7849.2	5940.1	3472.0	1966.1	1243.5	908.9	768.2	707.3	695.9
62.5°	10613.9	10020.6	7856.8	5601.7	3038.5	1639.0	1019.2	783.4	680.7	635.1	635.1
65°	11127.3	10389.5	7727.5	5168.1	2487.1	1315.8	840.4	661.7	593.3	543.8	532.4
67.5°	11378.2	10530.2	7499.3	4574.9	1992.7	1042.0	707.3	574.2	509.6	433.5	425.9
70°	11024.6	10123.3	6913.7	3814.3	1540.2	829.0	589.4	490.6	425.9	361.3	353.7
72.5°	9895.1	9039.5	5966.7	2954.8	1159.9	669.3	490.6	418.3	349.9	315.6	308.0
75°	8096.4	7518.3	4715.6	2034.5	810.0	524.8	410.7	353.7	296.6	281.4	277.6
77.5°	6145.5	5590.2	3445.4	1274.0	555.2	410.7	349.9	300.4	258.6	270.0	262.4
80°	4103.3	3848.5	2289.3	722.5	372.7	300.4	266.2	220.6	197.8	228.2	220.6
82.5°	1863.4	1764.5	1076.2	315.6	167.3	129.3	91.3	68.5	53.2	49.4	57.0
85°	311.8	273.8	76.1	34.2	19.0	11.4	7.6	7.6	3.8	3.8	3.8
87.5°	15.2	11.4	11.4	7.6	3.8	3.8	3.8	3.8	3.8	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2407-157-5

Test Date: 08/07/2024

Luminaire Tested: MEM2-HTN-SA-40-740-U-5WQ-2

Data in this report applies to families of products including MEM2-HTN-SA-40-740-U-5WQ-2

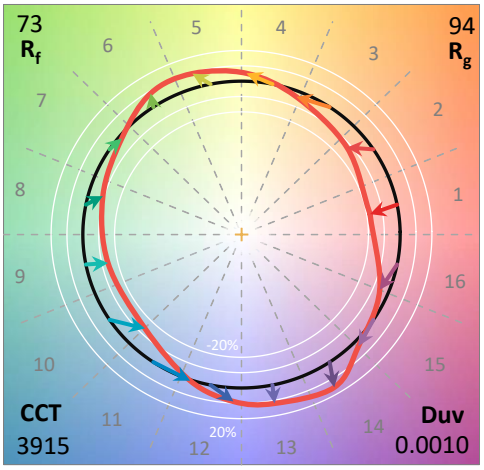
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-157-5
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	08/20/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**MEM2-HTN-SA-40-740-U-5WQ-2**
Description:	Epic Modern Light Square 40W 5WQ Optic and Flare Trim

Spectral Parameters

CCT (K):	3915	CRI (Ra):	71.0		
CIE u':	0.2262	R1:	67.6	R9:	-38.4
CIE v':	0.5044	R2:	78.3	R10:	48.9
Duv:	0.0010	R3:	87.1	R11:	65.3
CIE x:	0.3850	R4:	69.7	R12:	40.4
CIE y:	0.3816	R5:	67.4	R13:	69.3
CIE z:	0.2334	R6:	69.3	R14:	92.6
Peak Wavelength (nm):	449	R7:	79.7	R15:	59.9
Dominant Wavelength (nm):	578	R8:	48.7		
Purity:	30.05482				
Rf:	73.2				
Rg:	93.9				



Test Conditions

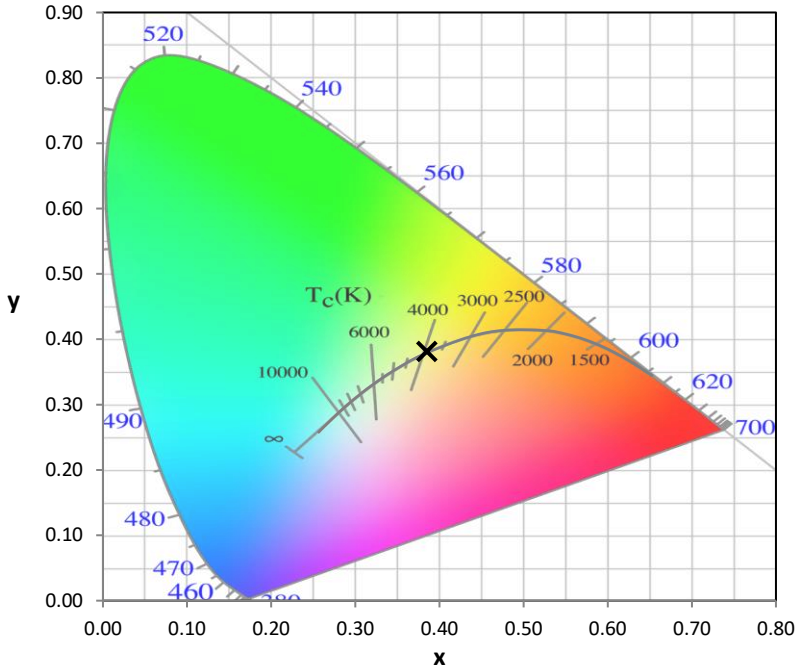
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2407-157-5

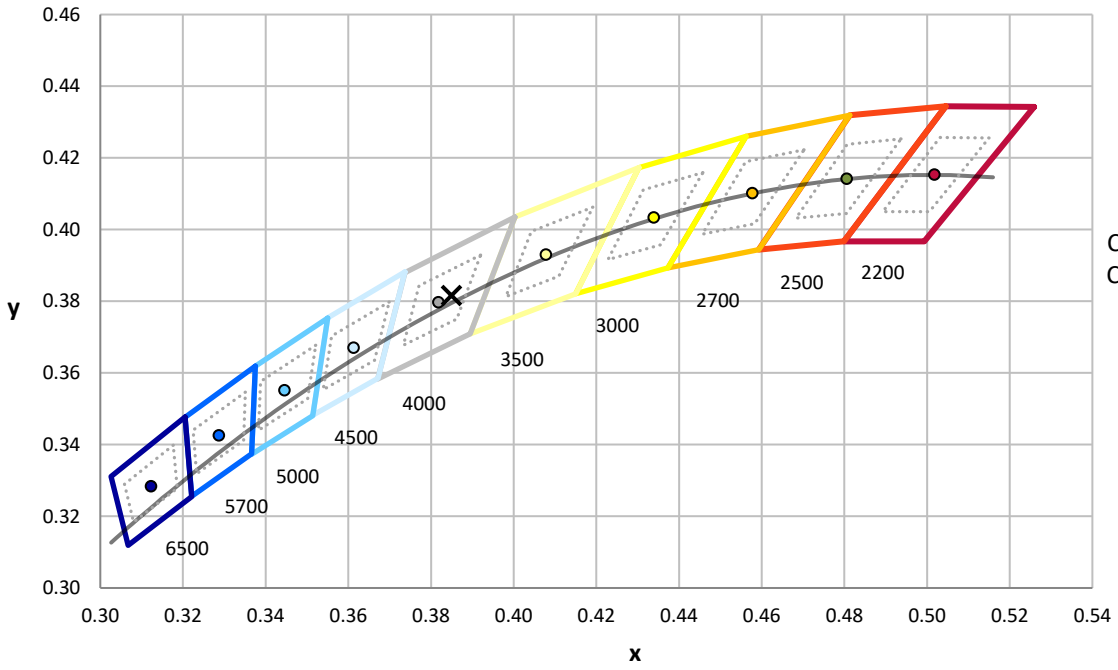
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2407-157-5

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles

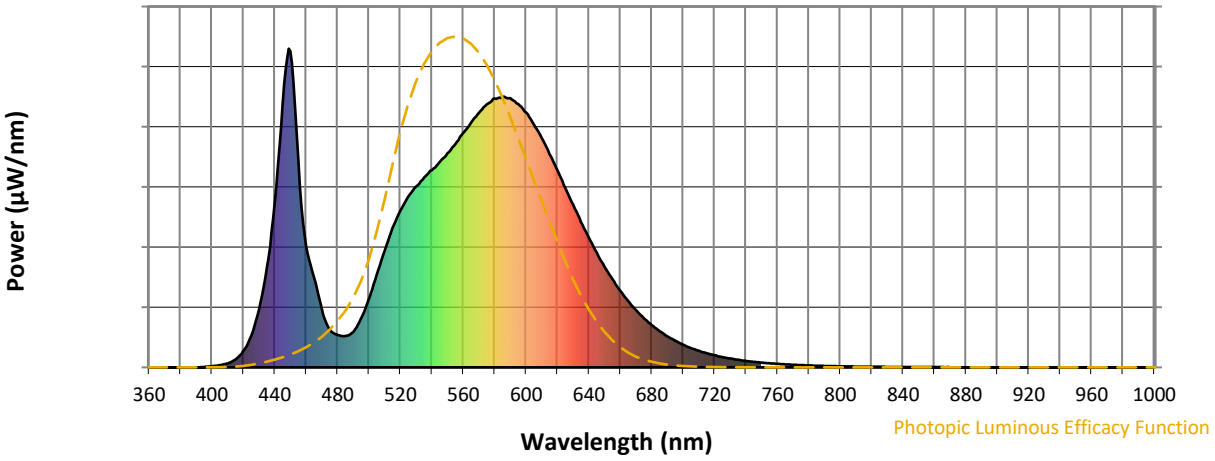


CCT = 3915K
CIE x = 0.3850
CIE y = 0.3816
Duv = 0.0010

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-157-5

Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	112	NR	620	618	NR	750	15	NR	880	0	NR
365	0	NR	495	153	NR	625	563	NR	755	13	NR	885	0	NR
370	0	NR	500	216	NR	630	510	NR	760	11	NR	890	0	NR
375	0	NR	505	291	NR	635	456	NR	765	9	NR	895	0	NR
380	0	NR	510	366	NR	640	407	NR	770	8	NR	900	0	NR
385	0	NR	515	436	NR	645	359	NR	775	7	NR	905	0	NR
390	0	NR	520	492	NR	650	316	NR	780	6	NR	910	0	NR
395	2	NR	525	536	NR	655	277	NR	785	5	NR	915	0	NR
400	4	NR	530	567	NR	660	240	NR	790	4	NR	920	0	NR
405	7	NR	535	596	NR	665	208	NR	795	4	NR	925	0	NR
410	12	NR	540	619	NR	670	179	NR	800	3	NR	930	0	NR
415	25	NR	545	644	NR	675	154	NR	805	3	NR	935	0	NR
420	51	NR	550	671	NR	680	133	NR	810	3	NR	940	0	NR
425	100	NR	555	701	NR	685	114	NR	815	2	NR	945	0	NR
430	180	NR	560	735	NR	690	98	NR	820	2	NR	950	0	NR
435	315	NR	565	768	NR	695	83	NR	825	2	NR	955	0	NR
440	514	NR	570	798	NR	700	71	NR	830	1	NR	960	0	NR
445	828	NR	575	825	NR	705	61	NR	835	1	NR	965	0	NR
450	992	NR	580	843	NR	710	52	NR	840	1	NR	970	0	NR
455	652	NR	585	848	NR	715	44	NR	845	1	NR	975	0	NR
460	382	NR	590	844	NR	720	38	NR	850	1	NR	980	0	NR
465	282	NR	595	826	NR	725	32	NR	855	1	NR	985	0	NR
470	180	NR	600	800	NR	730	28	NR	860	1	NR	990	0	NR
475	119	NR	605	762	NR	735	24	NR	865	1	NR	995	0	NR
480	101	NR	610	719	NR	740	20	NR	870	1	NR	1000	0	NR
485	98	NR	615	669	NR	745	17	NR	875	0	NR			

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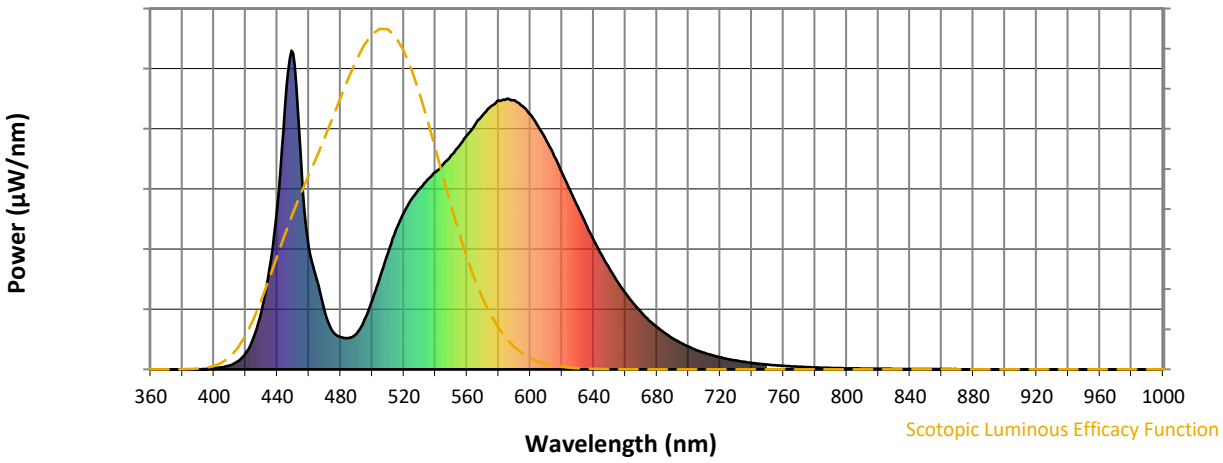
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.49**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	112	NR	620	618	NR	750	15	NR	880	0	NR
365	0	NR	495	153	NR	625	563	NR	755	13	NR	885	0	NR
370	0	NR	500	216	NR	630	510	NR	760	11	NR	890	0	NR
375	0	NR	505	291	NR	635	456	NR	765	9	NR	895	0	NR
380	0	NR	510	366	NR	640	407	NR	770	8	NR	900	0	NR
385	0	NR	515	436	NR	645	359	NR	775	7	NR	905	0	NR
390	0	NR	520	492	NR	650	316	NR	780	6	NR	910	0	NR
395	2	NR	525	536	NR	655	277	NR	785	5	NR	915	0	NR
400	4	NR	530	567	NR	660	240	NR	790	4	NR	920	0	NR
405	7	NR	535	596	NR	665	208	NR	795	4	NR	925	0	NR
410	12	NR	540	619	NR	670	179	NR	800	3	NR	930	0	NR
415	25	NR	545	644	NR	675	154	NR	805	3	NR	935	0	NR
420	51	NR	550	671	NR	680	133	NR	810	3	NR	940	0	NR
425	100	NR	555	701	NR	685	114	NR	815	2	NR	945	0	NR
430	180	NR	560	735	NR	690	98	NR	820	2	NR	950	0	NR
435	315	NR	565	768	NR	695	83	NR	825	2	NR	955	0	NR
440	514	NR	570	798	NR	700	71	NR	830	1	NR	960	0	NR
445	828	NR	575	825	NR	705	61	NR	835	1	NR	965	0	NR
450	992	NR	580	843	NR	710	52	NR	840	1	NR	970	0	NR
455	652	NR	585	848	NR	715	44	NR	845	1	NR	975	0	NR
460	382	NR	590	844	NR	720	38	NR	850	1	NR	980	0	NR
465	282	NR	595	826	NR	725	32	NR	855	1	NR	985	0	NR
470	180	NR	600	800	NR	730	28	NR	860	1	NR	990	0	NR
475	119	NR	605	762	NR	735	24	NR	865	1	NR	995	0	NR
480	101	NR	610	719	NR	740	20	NR	870	1	NR	1000	0	NR
485	98	NR	615	669	NR	745	17	NR	875	0	NR			

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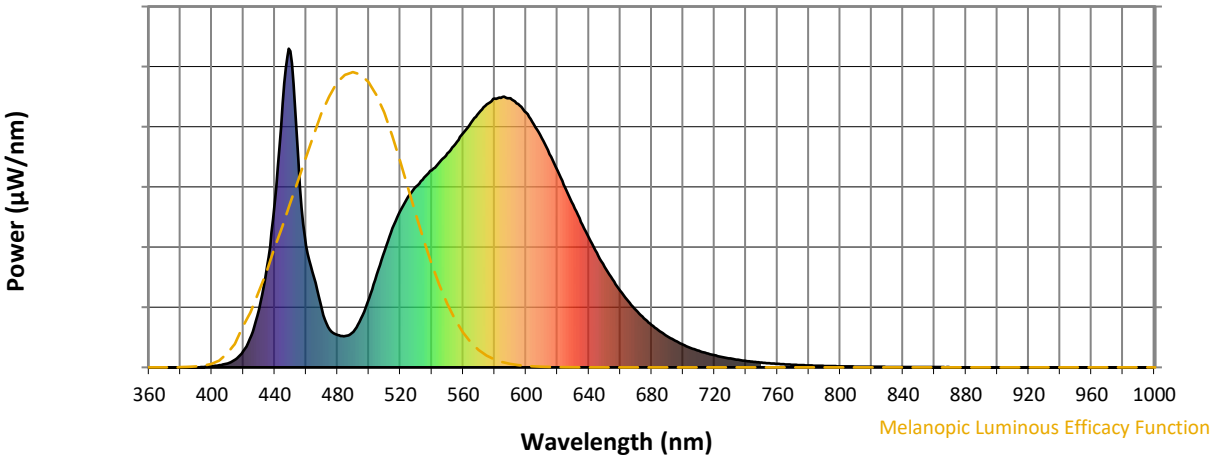
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.88**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	112	NR	620	618	NR	750	15	NR	880	0	NR
365	0	NR	495	153	NR	625	563	NR	755	13	NR	885	0	NR
370	0	NR	500	216	NR	630	510	NR	760	11	NR	890	0	NR
375	0	NR	505	291	NR	635	456	NR	765	9	NR	895	0	NR
380	0	NR	510	366	NR	640	407	NR	770	8	NR	900	0	NR
385	0	NR	515	436	NR	645	359	NR	775	7	NR	905	0	NR
390	0	NR	520	492	NR	650	316	NR	780	6	NR	910	0	NR
395	2	NR	525	536	NR	655	277	NR	785	5	NR	915	0	NR
400	4	NR	530	567	NR	660	240	NR	790	4	NR	920	0	NR
405	7	NR	535	596	NR	665	208	NR	795	4	NR	925	0	NR
410	12	NR	540	619	NR	670	179	NR	800	3	NR	930	0	NR
415	25	NR	545	644	NR	675	154	NR	805	3	NR	935	0	NR
420	51	NR	550	671	NR	680	133	NR	810	3	NR	940	0	NR
425	100	NR	555	701	NR	685	114	NR	815	2	NR	945	0	NR
430	180	NR	560	735	NR	690	98	NR	820	2	NR	950	0	NR
435	315	NR	565	768	NR	695	83	NR	825	2	NR	955	0	NR
440	514	NR	570	798	NR	700	71	NR	830	1	NR	960	0	NR
445	828	NR	575	825	NR	705	61	NR	835	1	NR	965	0	NR
450	992	NR	580	843	NR	710	52	NR	840	1	NR	970	0	NR
455	652	NR	585	848	NR	715	44	NR	845	1	NR	975	0	NR
460	382	NR	590	844	NR	720	38	NR	850	1	NR	980	0	NR
465	282	NR	595	826	NR	725	32	NR	855	1	NR	985	0	NR
470	180	NR	600	800	NR	730	28	NR	860	1	NR	990	0	NR
475	119	NR	605	762	NR	735	24	NR	865	1	NR	995	0	NR
480	101	NR	610	719	NR	740	20	NR	870	1	NR	1000	0	NR
485	98	NR	615	669	NR	745	17	NR	875	0	NR			

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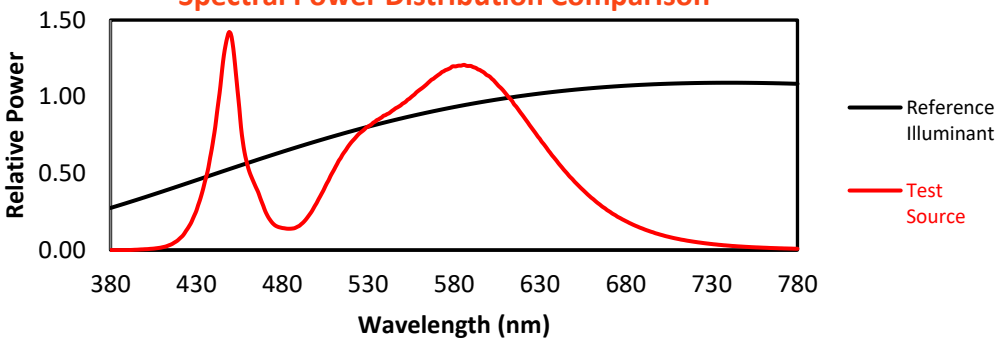
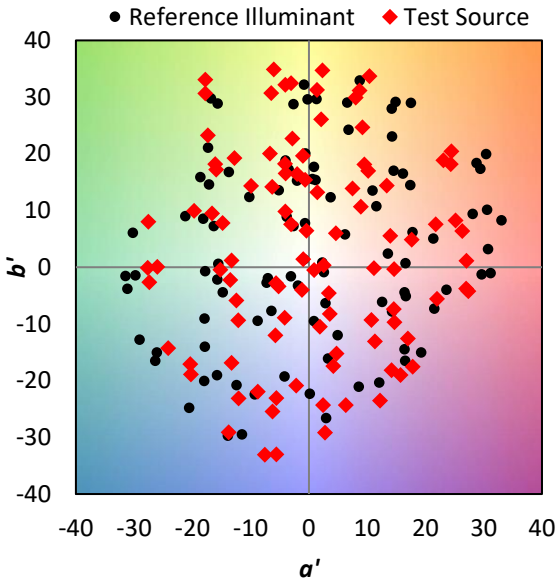
Summary

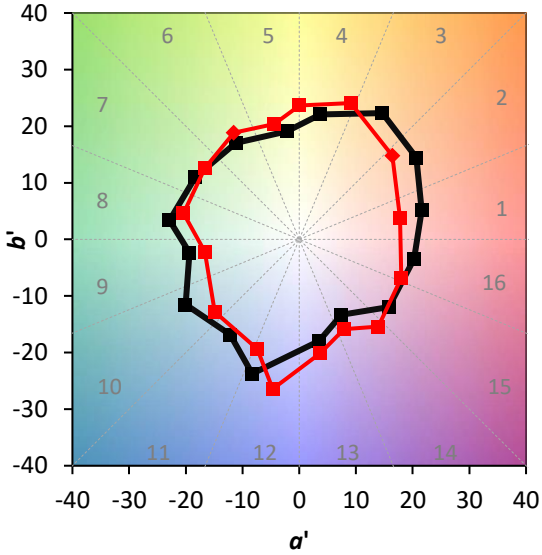
R_f = 73.2
R_g = 93.9
CIE R_a = 71.0
R_9 = -38.4

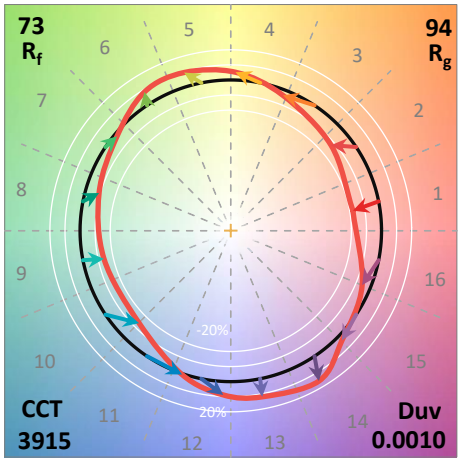
Spectral Power Distribution Comparison

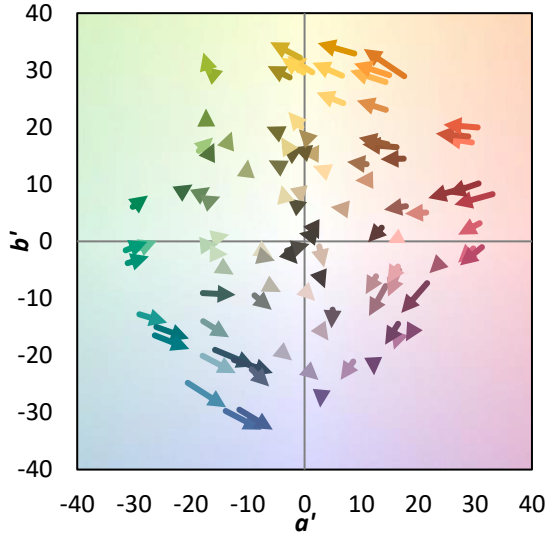


Color Vector Graphics









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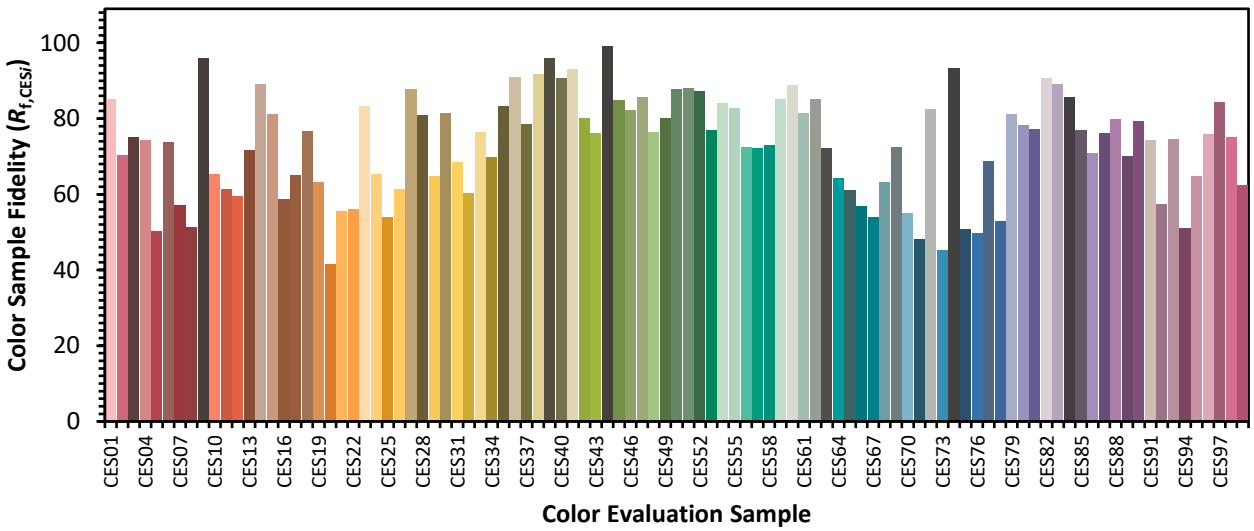
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 61	CES51 = 88	CES76 = 50
CES02 = 61	CES27 = 88	CES52 = 87	CES77 = 69
CES03 = 30	CES28 = 81	CES53 = 77	CES78 = 53
CES04 = 70	CES29 = 65	CES54 = 84	CES79 = 81
CES05 = 47	CES30 = 81	CES55 = 83	CES80 = 78
CES06 = 50	CES31 = 69	CES56 = 73	CES81 = 77
CES07 = 40	CES32 = 60	CES57 = 72	CES82 = 91
CES08 = 39	CES33 = 76	CES58 = 73	CES83 = 89
CES09 = 29	CES34 = 70	CES59 = 85	CES84 = 86
CES10 = 74	CES35 = 83	CES60 = 89	CES85 = 77
CES11 = 57	CES36 = 91	CES61 = 81	CES86 = 71
CES12 = 63	CES37 = 79	CES62 = 85	CES87 = 76
CES13 = 42	CES38 = 92	CES63 = 72	CES88 = 80
CES14 = 74	CES39 = 96	CES64 = 64	CES89 = 70
CES15 = 71	CES40 = 91	CES65 = 61	CES90 = 79
CES16 = 46	CES41 = 93	CES66 = 57	CES91 = 74
CES17 = 49	CES42 = 80	CES67 = 54	CES92 = 57
CES18 = 56	CES43 = 76	CES68 = 63	CES93 = 74
CES19 = 72	CES44 = 99	CES69 = 73	CES94 = 51
CES20 = 65	CES45 = 85	CES70 = 55	CES95 = 65
CES21 = 86	CES46 = 82	CES71 = 48	CES96 = 76
CES22 = 78	CES47 = 86	CES72 = 83	CES97 = 84
CES23 = 92	CES48 = 77	CES73 = 45	CES98 = 75
CES24 = 91	CES49 = 80	CES74 = 93	CES99 = 62
CES25 = 72	CES50 = 88	CES75 = 51	



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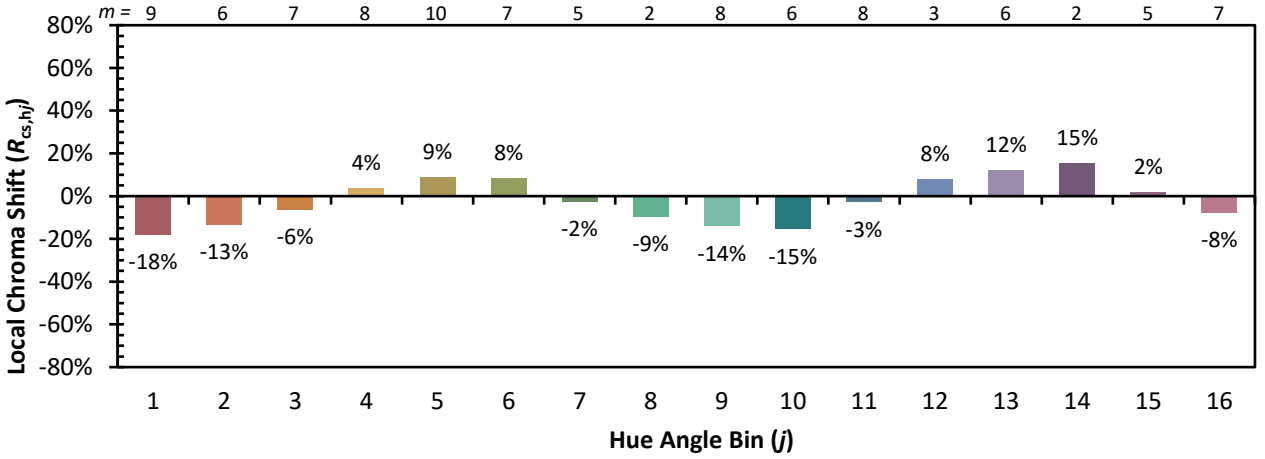
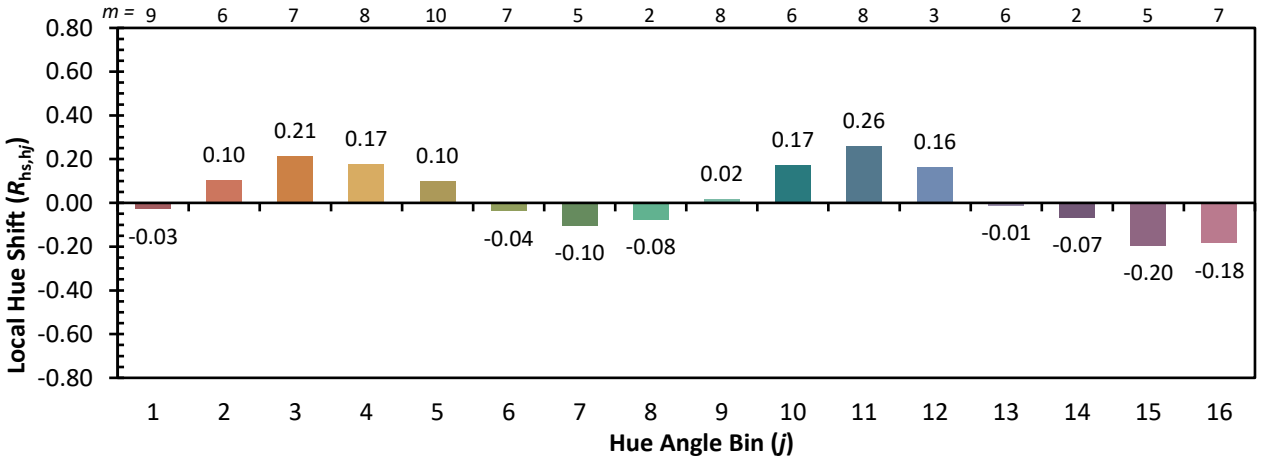
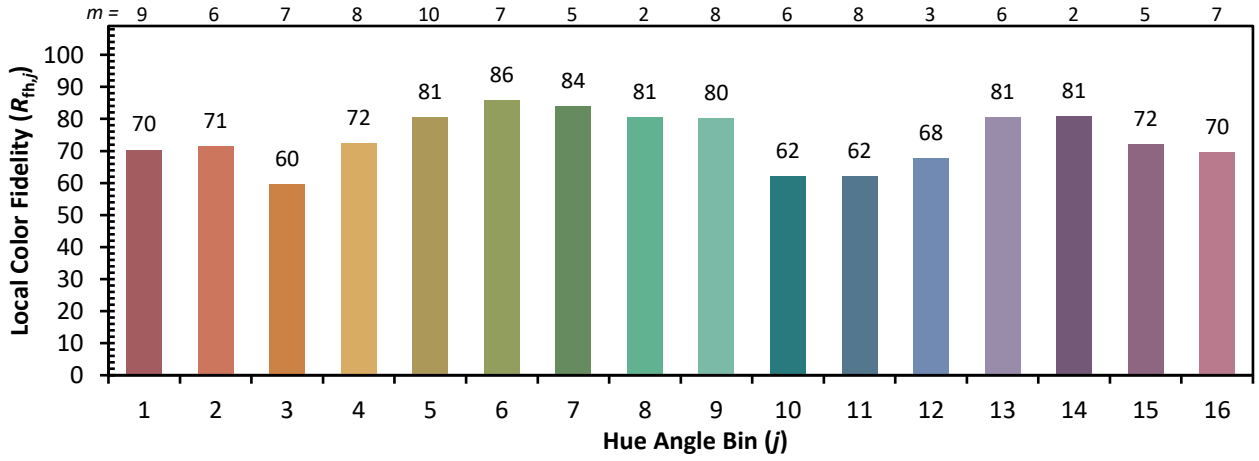
Color Rendition by Hue-Angle Bin







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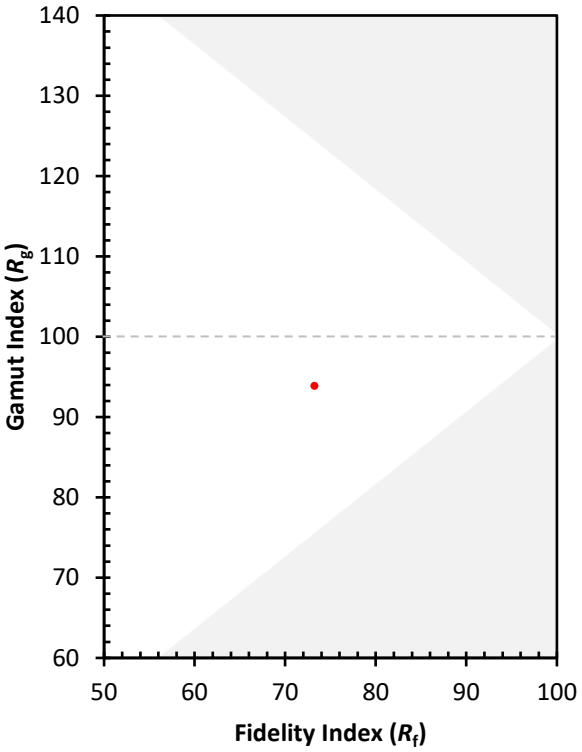
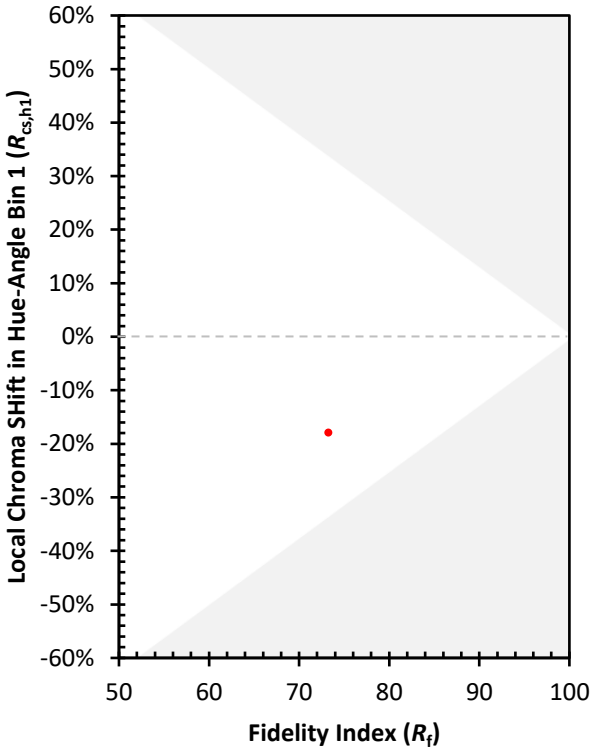
Measure Comparisons





(END OF REPORT)